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Server/Workstation Solution

Thunder n6650W

S2915

AMD 64 Opteron™

Opteron™ Socket Rev. F Workstation

- Dual PGA 1207-pin socket support AMD Opteron ™ Rev. F 2000 series processors
- NVIDIA® nForce Pro 3600 + 3050 chipset
- (2) PCI-E x16, (2) PCI-E x8 slot
- (2) 133MHz PCI-X slots
- (1) PCI slot
- (6) SATA-2 ports from NFP 3600
- LSI 1068E 8-port SAS controller
- (2) GbE (via Marvell PHY 88E1121)

(Specifications are subject to change without notice. Items pictured may only be representative.)

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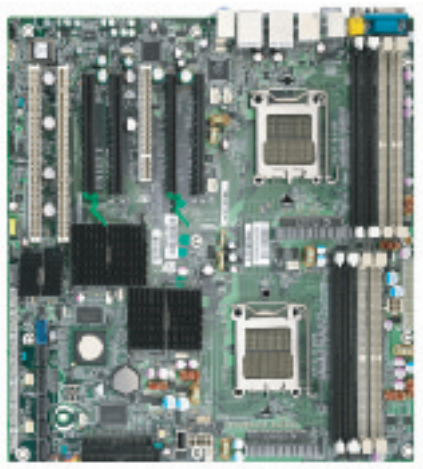
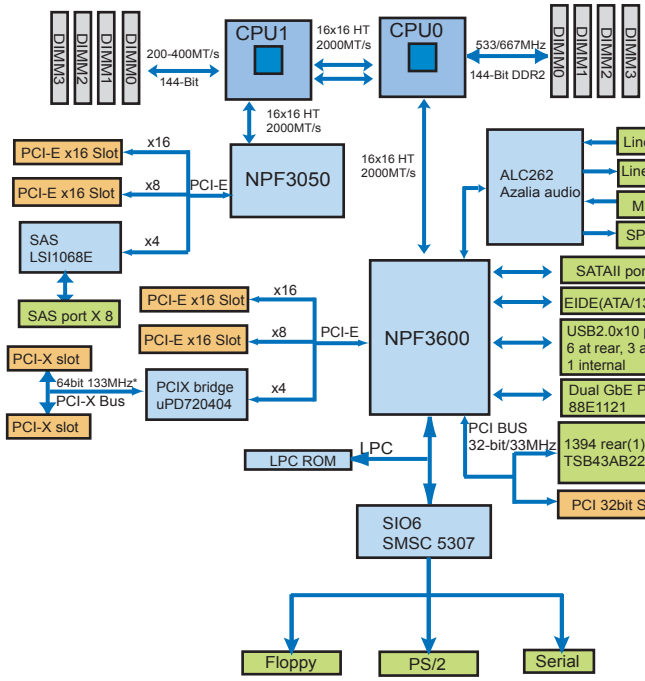
TOP View





S P E C I F I C A T I O N S

Processors
- Dual 1207-pin sockets support AMD Opteron™ (Rev. F) 2000 series processors
- Uses the standard 3 1/2"/ 89mm socket connector
- Two onboard 5-phase digital VRMs

Chipset
- nVIDIA NFP3600 + NPF3050
- NEC nPD720404 PCI-X tunnel
- SMSC 5307 Super I/O controller

Memory
- Dual channel memory bus
- (8) 240-pin DDR2 DIMM sockets (four per CPU)
- Supports registered, ECC DIMMs
- 32GB maximum of DDR2 667/533/400 memory

Expansion Slots
- (4) PCI-E x16 slots
  - (1) x16 signal from IO55
  - (1) x16 from MCP55
  - (1) x16 from MCP55 with x8 signal
  - (1) x16 from IO55 with x8 signal
- (2) PCI-X 100MHz slots from NEC nPD720404 or (1) PCI-X 133MHz slot if 133MHz card is used
- (1) PCI v2.3 32-bit 33MHz slot
- (7) Expansion slots total

Regulatory
- FCC Class B (Declaration of Conformity)
- European Community CE (DoC)

Integrated I/O
- (1) 9-pin 16550 UART serial port
- (10) USB 2.0 ports (6 rear, 3 front, 1 via header)
  - (2) Stacked USB 2.0 + (1) Firewire ports
  - (2) Stacked USB 2.0 + (1) GbE LAN ports
  - (2) Stacked USB 2.0 + (1) GbE LAN ports
- (1) Stacked PS/2 mouse and keyboard ports
- (1) Stacked Serial connector
- (6) SATA-II connectors
- (1) IDE and (1) floppy connectors

Integrated Audio
- HD Audio (High-Definition Audio) supported
- Realtek ALC262 controller (High Definition Audio)
- Line-in, Line-out, Mic-in rear ports
- SPDIF-out in rear
- Front panel audio header (2 x 5 pin)
- CD-in, Aux headers (4-pin configuration)

Integrated SAS Controller
- LSI 1068E SAS controller
  (8) SAS ports

Integrated Serial ATA Controller
- (6) SATA-II ports at 3.0Gb/s per direction per channel
- Serial ATA II specification compliant
- nVIDIA MediaShield supports for RAID 0, 1, 0+1, 5, JBOD
- HDD LED connector

Form Factor
- SSI/Extended ATX footprint (12" x 13")

System Management
- CPU thermal & voltage monitor support
- (6) 4-pin fan header (PWM & tachometer support)
- (1) 2-pin chassis intrusion header
- Watchdog timer support

Integrated LAN Controllers
- (2) GbE via Marvell 88E1121
- (2) RJ-45 ports with LEDs
- Supports WOL and PXE

Integrated FireWire (1394a) Controller
- TI TSB43AB22A 1394a PCI controller
- 1394a channel for rear (connector)
- 1394a channel for front (header)

BIOS
- Phoenix BIOS on 8Mbit LPC Flash ROM
- Supports ACPI (S0, S1, S3, S4, S5)
- Serial Console Redirect
- PXE via Ethernet, USB device boot
- PnP, DMI 2.0, WfM 2.0 Power Management
- User-configurable H/W monitoring
- Auto-configuration of hard disk types
- Multiple boot options
- 48-bit LBA support

Power
- EPS 12V / SSI (24 + 8 + 4 pin) power connectors support, onboard 4-phase VRD

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